

**МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ  
СУМСЬКИЙ ДЕРЖАВНИЙ УНІВЕРСИТЕТ  
ФАКУЛЬТЕТ ІНОЗЕМНОЇ ФІЛОЛОГІЇ  
ТА СОЦІАЛЬНИХ КОМУНІКАЦІЙ**



**СОЦІАЛЬНО-ГУМАНІТАРНІ АСПЕКТИ  
РОЗВИТКУ СУЧАСНОГО СУСПІЛЬСТВА**

**МАТЕРІАЛИ ВСЕУКРАЇНСЬКОЇ НАУКОВОЇ КОНФЕРЕНЦІЇ ВИКЛАДАЧІВ,  
АСПІРАНТІВ, СПІВРОБІТНИКІВ ТА СТУДЕНТІВ**

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a favorable investment climate in the region, encouraging foreign investors who come to the region, the organizing diplomatic visits on foreign investment, organizing and preparing the projects to attract foreign investment. The result of this work was the implementation of projects to create two industrial parks in the region, as well as to attract foreign investors to cooperate in many industrial enterprises of the region. The high efficiency of these projects made it possible to prove a significant effect of FDI on economic and social development of Sumy region.

A number of obstacles to the realization of international investment projects have been identified. The largest of these is the transfer of funds through offshore centers, and then their investment in Ukraine, lack of compliance with the requirements of legislation, which are normally used to foreign investors and the lack of sufficiently clear and transparent activities of public authorities in the cooperation with foreign producers.

Based on the identified barriers there are some ways to overcome them. They may be:

- to create so-called "investment map" investor and to develop it on a "credit history" in the US, that is, to make a special public register of all the companies to which an enterprise invested, and its financial performance;
- to develop a certain type of investor reporting to the company and state authorities about his activities, which would help to monitor its activity and capital flows in and out of the enterprise;
- to provide public authorities to validate investor activity.

The main advantages of Sumy region that can attract additional foreign investment are: a favorable geographic location, the nodal lines, geographical proximity to the border.

## **SOME BENEFITS OF LEARNING A FOREIGN LANGUAGE**

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Learning a new language takes time and dedication. Being fluent in a second language offers numerous benefits and opportunities. Learning a foreign language is exciting and beneficial at all ages. It offers practical, intellectual and many aspirational benefits. Today there are more than 7000 languages and learning at least one can do a lot of good. Although it has been proven that it is easier for children to learn a second language, it is obviously never too late to learn. Whatever your age, being bilingual certainly has advantages. Physiological studies have found that speaking two or more languages is a great asset to the cognitive process. The brains of bilingual

people operate differently than single language speakers, and these differences offer several mental benefits. Speaking a foreign language improves the functionality of your brain by challenging it to recognize, negotiate meaning, and communicate in different language systems. This skill boosts your ability to negotiate meaning in other problem-solving tasks as well. People studying foreign languages tend to score better on standardised tests than their monolingual peers, particularly in the categories of maths, reading, and vocabulary. Multilingual people, especially children, are skilled at switching between two systems of speech, writing, and structure. According to a study from the Pennsylvania State University, this "juggling" skill makes them good multitaskers, because they can easily switch between different structures. In one study, participants used a driving simulator while doing separate distracting tasks at the same time. The research found that people who spoke more than one language made fewer errors in the driving. Several studies have been conducted and researchers conclude that for monolingual adults, the mean age for the first signs of dementia is 71.4, for adults who speak two or more languages, the mean age for those first signs is 75.5. Studies considered factors such as education level, income, gender, and physical health, but the results were consistent. Due to learning languages your memory improves. Educators often liken the brain to a muscle as it functions better with exercise. Learning a language involves memorising rules and vocabulary, which helps strengthen that mental "muscle." This exercise improves overall memory, which means that multilingual speakers are better at remembering lists or sequences. It has been revealed that multilingual people are better at observing surroundings, they are more adept at focusing on relevant information and editing out the irrelevant as well as spotting misleading information. Bilinguals tend to make more rational decisions. Any language contains nuance and subtle implications in its vocabulary, and these biases can subconsciously influence your judgement. They are more confident with their choices after thinking it over in the second language and seeing whether their initial conclusions still stand up.

Learning a foreign language draws your focus to the mechanics of language: grammar, conjugations, and sentence structure. This makes you more aware of language, and the ways it can be structured and manipulated. These skills can make you a more effective communicator and a sharper editor and writer. Language speakers also develop a better ear for listening, since they are skilled at distinguishing meaning from discreet sounds. We live in an increasingly globalized world and companies are constantly expanding overseas and dealing with clients from all over the world. Between two candidates with the exact same skill set and experience, the person who is bilingual is arguably much more likely to get the job. Once the hard work and effort has paid off, you will experience the many benefits associated with learning a new language and you will have a new found confidence. You'll get

to overcome some of your fears and doubts, learn more and perhaps travel to places you would have never dared to visit before, you'll meet new and interesting people and develop life-long friendship. It's never too late to study. A research from the University of Illinois at Chicago shows that adults learning a foreign language are completely capable of becoming highly proficient in it. There's really no reason not to learn another language. Even if you like your current job and find your pay suitable, don't you want at least to stave off memory loss and make better decisions just to have fun and benefit from it?

## **RESEARCH OF THE WORKING MODEL OF VORTEX WEIGHTED LAYER IN THE GRANULATOR**

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At small enterprises, with the average productivity in the production of granular products, it is advisable to use weighted layer granulators. Such apparatus has a relatively smaller size and a simple structure, and consequently, lower cost of material, energy and labor resources than other types of granulating machines. The main disadvantage of this type of equipment, is a low stability of the weighted layer. The developed granulators of\_vortex-weighted layer can prevent this deficiency and improve hydrodynamics of apparatus workspace.

Using swirling flows leads to the stabilization of flows, improves the efficiency of heat and mass transfer processes and the alignment of the temperature irregularities. Swirl flows of working fluid is one of the simplest and most common way of intensification of heat and mass transfer.

When designing vortex granulator of weighted layer, a lot of attention is given to the study of optimal mode of work, which in the future will determine the main factors, influencing the development of flows swirl of the working fluid. Therefore, this question is relevant.

In the study of operating modes of the vortex-weighted layer, special focus is given to the investigation of the pressure loss on fluidized bed of dispersed material (hydraulic resistance of a weighted layer).